


Active noise reduction appts. for motor vehicle

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Abstract of DE19610292

The active noise reduction device includes an engine operational parameter sensor (10) arranged in the manifold of IC engine for detecting the engine working parameter with a correlation with induction air noise. A control unit (9) adjusts or sets a frequency, amplitude and phase of a sound wave generated via the signal derived from the sensor in addition to the induction air noise which together with the sound wave forms an interference action so as to cancel out the induction air noise. A noise generator (21) generates and outputs the noise wave as set by the control unit. A residual sound-wave detector (22) is used for detecting a residual sound-wave between the induction air sound-wave and the generated sound-wave. The control unit (9) in addition includes a first device for determining the acoustic (noise) pressure level of the residual sound-wave, a second device for determining if the acoustic pressure level fulfils a given condition, and a third device for stopping generation of sound waves by the generator when the acoustic pressure level fulfils the given condition.

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